

Test Content Summaries

Assessments in Career Education (ACE) in agriculture core; computer science and information systems; food service and hospitality; health care, level I; and technology core will be administered in spring 2000. These assessments are designed for students in high schools and regional occupational centers/programs. The content of each assessment is listed below.

Each ACE examination is made available to a student only one time. For this reason, it is important for students to take a particular examination when they have had the opportunity to learn the content covered. Prior to taking an ACE examination, students should complete the appropriate coursework that provides instruction in all of the standards covered by the examination.

Agriculture Core

The ACE examination in agriculture core covers content related to:

- the interrelationship of California agriculture with society, the economy, the environment, and natural resources
- the importance of agricultural firms and technology to the production, processing, servicing, and marketing of agricultural products
- the use of record keeping, computers, and the functions of purchasing and marketing in agricultural business
- leadership skills and their relationship to employability
- awareness of existing and future employment opportunities in agriculture
- operating principles of common tools and the safe operation of power tools and small engines in agriculture
- reading and using tools for measurement and performing calculations for problem solving in agriculture
- the anatomy of major animal body systems (e.g., digestive, reproductive, circulatory, nervous, muscular, skeletal, respiratory, and endocrine systems) and the basic theory of inheritance
- factors influencing animal nutrition and feeding and recognition of general symptoms of health problems
- the role of soil in plant production and the requirements for plant growth and development
- the role of nutrients, water, and pests in plant production
- awareness of renewable and nonrenewable resources used in agriculture

Computer Science and Information Systems

The ACE examination in computer science and information systems covers content related to:

- the information processing concepts necessary to gather, create, and analyze data
- the support services necessary to operate an office in a global society
- systems and programming concepts related to the science of computer operations, including computer systems and programs
- computerized information systems, including the evaluation and use of hardware and software solutions to improve productivity
- telecommunications concepts and systems

Food Service and Hospitality

The ACE examination in food service and hospitality covers content related to:

- awareness of the food service and hospitality industry and its role in the state's economy
- safe work habits and emergency and operational procedures in food establishments
- basic dietary guidelines and the effects of food preparation techniques on nutritional values
- sanitation and food handling, including causes/prevention of food-borne illnesses
- the tools, utensils, appliances, and equipment needed for food production and service
- factors that contribute to customer satisfaction
- the concept of establishing and operating a business in the food service and hospitality industry (entrepreneurship)
- the process and importance of cost analysis and its relationship to profit and loss in the food service and hospitality industry
- standardized recipes, recipe conversion, and measurements
- food and beverage production, preparation, and service

Test Content Summaries

Health Care, Level I

The ACE examination in health care, level I covers content related to:

- the interrelationship of health care needs, funding, staffing, and regulation practice to the quality of service provided
- the principles of human body system structure and function in relation to human growth and development
- the principles of asepsis, body mechanics, and protective safety measures related to exposure to infection, hazardous and biomedical waste and materials, behavioral problems, and fire and disaster
- the legal constraints, professional codes, and ethical considerations affecting health delivery systems
- prevention of disease processes for the maintenance of optimum health

Technology Core

The ACE examination in technology core covers content related to:

- communication systems, including telecommunications, technical and computer aided drawing, graphic communications, and photography and motion pictures
- modes of transportation for people and goods, including propulsion systems, controls, and related infrastructures
- energy technology, including energy sources, extraction and conversion processes, transmission, conservation, and storage systems
- production technology, including planning and design, construction and servicing structures, electro/mechanical systems, materials and processes, computer aided manufacturing, and production management as they relate to construction and manufacturing activities
- microbiotechnology and biomedical technology processes and systems
- computer applications as they apply to present and future areas of technology
- past, present, and future impacts of technological developments on the environment